

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|---------|---|------------------------------|------------------|---------|------------------|
| S2 | 1 | ("5351622").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/05 19:45 |
| S3 | 3 | ((("5351622") or ("4951572") or ("4703695")).PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/05 20:01 |
| S5 | 12 | "2046372" | EPO; JPO; DERWENT | OR | ON | 2006/04/06 20:52 |
| S6 | 2150 | (102/473-500).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/04/06 20:52 |
| S7 | 355 | S6 and spring | US-PGPUB; USPAT | OR | ON | 2006/04/06 20:52 |
| S8 | 374 | S6 and (spring\$5 or sprung or bias\$5) | US-PGPUB; USPAT | OR | ON | 2006/04/06 21:14 |
| S9 | 1297901 | (spring\$5 or sprung or bias\$5) | US-PGPUB; USPAT | OR | ON | 2006/04/06 21:14 |
| S10 | 2279771 | temperature or thermal\$4 or heat\$5 | US-PGPUB; USPAT | OR | ON | 2006/04/07 12:59 |
| S11 | 2056600 | expansion or pressure or hazard | US-PGPUB; USPAT | OR | ON | 2006/04/06 21:16 |
| S12 | 1351837 | S10 and S11 | US-PGPUB; USPAT | OR | ON | 2006/04/06 21:16 |
| S13 | 310499 | projectile or shell or missile or grenade or bomb | US-PGPUB; USPAT | OR | ON | 2006/04/07 12:59 |
| S14 | 146613 | S12 and S13 | US-PGPUB; USPAT | OR | ON | 2006/04/06 21:18 |
| S15 | 38022 | S9 and S14 | US-PGPUB; USPAT | OR | ON | 2006/04/06 21:21 |
| S16 | 1 | ("4798145").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/06 21:22 |
| S17 | 3 | ("4798145").URPN. | USPAT | OR | ON | 2006/04/06 21:38 |
| S18 | 1 | ("4365556").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/06 21:26 |
| S19 | 1 | ("h001504").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/10 12:29 |
| S20 | 0 | ("H001504").URPN. | USPAT | OR | ON | 2006/04/06 21:38 |
| S21 | 11 | ("2697400" "2866414" "3613585" "3662684" "4703695" "4798145" "4938146" "4982665" "H000058").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/06 22:04 |
| S22 | 1 | ("4703695").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/06 22:04 |
| S23 | 5 | ("4703695").URPN. | USPAT | OR | ON | 2006/04/06 22:04 |

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| S24 | 3 | ("3454313" "3978795").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/06 22:42 |
| S25 | 1 | ("5351622").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/06 22:42 |
| S26 | 1 | ("5351622").URPN. | USPAT | OR | ON | 2006/04/06 22:42 |
| S27 | 6 | ("4703695" "4776278" "4798145" "4922825" "4951572" "5153373").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/06 22:51 |
| S28 | 1 | ("4951572").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/07 11:00 |
| S29 | 6 | ("4951572").URPN. | USPAT | OR | ON | 2006/04/06 22:54 |
| S30 | 4 | ("3437036" "3978795" "4703695").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/06 23:03 |
| S31 | 1 | ("6453817").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/07 11:00 |
| S32 | 0 | ("6453817").URPN. | USPAT | OR | ON | 2006/04/07 11:01 |
| S33 | 12 | ("2926603" "3965993" "4496008" "4875413" "4885993" "4951572" "5153373" "5460095" "5505135" "5509357" "5656791").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/07 11:29 |
| S34 | 1 | ("5902954").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/07 11:29 |
| S35 | 0 | ("5902954").URPN. | USPAT | OR | ON | 2006/04/07 11:48 |
| S36 | 9 | ("4776278" "4798145" "4951572" "5237929" "5351622" "5505136" "5509357" "5567906" "5656791").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/07 11:54 |
| S37 | 1 | ("5237929").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/07 11:54 |
| S38 | 3 | ("5237929").URPN. | USPAT | OR | ON | 2006/04/07 11:54 |
| S39 | 8 | ("4622901" "4714019" "4776272" "4776278" "4976203" "4979443" "4982667" "5033387").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/07 11:58 |
| S40 | 734 | (102/306,307,476).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/04/07 12:34 |
| S41 | 327 | (102/308,309,310).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/04/07 12:34 |
| S42 | 197 | S41 not S40 | US-PGPUB; USPAT | OR | ON | 2006/04/07 12:39 |
| S43 | 118 | (102/701).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/04/07 12:41 |

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| S44 | 72 | (102/305).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/04/07 12:43 |
| S45 | 61 | (102/475).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/04/07 12:44 |
| S46 | 310499 | projectile or shell or missile or grenade or bomb | US-PGPUB; USPAT | OR | ON | 2006/04/07 12:59 |
| S47 | 2279771 | temperature or thermal\$4 or heat\$5 | US-PGPUB; USPAT | OR | ON | 2006/04/07 13:05 |
| S48 | 846503 | expand\$5 or expansion | US-PGPUB; USPAT | OR | ON | 2006/04/07 13:02 |
| S49 | 219845 | S47 with S48 | US-PGPUB; USPAT | OR | ON | 2006/04/07 13:01 |
| S50 | 7591 | S47 same S48 same S46 | US-PGPUB; USPAT | OR | ON | 2006/04/07 13:03 |
| S51 | 22343 | "102"/\$.ccls. | US-PGPUB; USPAT | OR | ON | 2006/04/07 14:54 |
| S52 | 224 | S50 and S51 | US-PGPUB; USPAT | OR | ON | 2006/04/07 13:08 |
| S53 | 1 | ("4703695").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/07 13:08 |
| S54 | 1 | ("3916618").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/07 13:29 |
| S55 | 7 | ("3916618").URPN. | USPAT | OR | ON | 2006/04/07 13:29 |
| S56 | 9 | ("3108433" "3173253" "3226928" "3397539" "3724219").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/07 13:34 |
| S57 | 1 | ("3173253").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/07 13:34 |
| S58 | 3 | ("3173253").URPN. | USPAT | OR | ON | 2006/04/07 13:37 |
| S59 | 445 | (spring or sprung or bias\$5) and (charge or explosive or propellant) and (expand\$5 or expansion) | EPO; JPO; DERWENT | OR | ON | 2006/04/07 14:52 |
| S60 | 68 | (spring or sprung or bias\$5) and (charge or explosive or propellant) and (expand\$5 or expansion) and (temperature or thermal) | EPO; JPO; DERWENT | OR | ON | 2006/04/07 14:22 |
| S61 | 89 | F42b039/20.ipc. | EPO; JPO; DERWENT | OR | ON | 2006/04/07 14:23 |
| S62 | 337 | F42b039/00.ipc. | EPO; JPO; DERWENT | OR | ON | 2006/04/07 14:12 |
| S63 | 1 | S59 and S62 | EPO; JPO; DERWENT | OR | ON | 2006/04/07 14:12 |

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| S64 | 2128 | (spring or sprung or bias\$5) same (charge or explosive or propellant) same (expand\$5 or expansion) same (temperature or thermal) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/07 14:54 |
| S65 | 7 | F42b039/20.ipc. | US-PGPUB; USPAT | OR | ON | 2006/04/07 14:23 |
| S66 | 34556 | "102"/\$.ccls. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/07 14:54 |
| S67 | 84 | S64 and S66 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/07 15:55 |
| S68 | 1 | ("4365556").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/07 15:55 |
| S69 | 7 | ("4365556").URPN. | USPAT | OR | ON | 2006/04/07 15:55 |
| S70 | 6 | ("1039204" "2345887" "3688702" "4259906").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/07 16:10 |
| S71 | 1 | ("3978795").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/07 16:10 |
| S72 | 4 | ("3978795").URPN. | USPAT | OR | ON | 2006/04/07 16:10 |
| S73 | 6 | ("1267695" "1323188" "2419414").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/07 16:18 |
| S74 | 1 | ("5153373").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/07 16:18 |
| S75 | 3 | ("5153373").URPN. | USPAT | OR | ON | 2006/04/07 16:18 |
| S76 | 7 | ("3217650" "3913488" "4487130" "4703695" "4862804" "4951572").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/07 16:36 |
| S77 | 1 | ("6035631").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/07 16:36 |
| S78 | 2 | ("6035631").URPN. | USPAT | OR | ON | 2006/04/07 16:37 |
| S79 | 7 | ("3887991" "5035181" "5044154" "5155298" "5311820" "5792981" "H001144").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/07 16:38 |
| S80 | 1 | ("5317975").PN. | US-PGPUB; USPAT | OR | OFF | 2006/04/10 11:56 |
| S81 | 5 | ("3981244" "4226185" "4621579" "4754706" "5210372").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/10 12:16 |
| S82 | 5 | ("5317975").URPN. | USPAT | OR | ON | 2006/04/10 12:20 |
| S83 | 7 | "1593370" | EPO; DERWENT | OR | ON | 2006/04/10 13:13 |

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| S86 | 160251 | retain\$4 near10 (cap or lock\$4 or ring) | US-PGPUB; USPAT | OR | ON | 2006/04/10 13:15 |
| S87 | 136414 | retain\$4 near5 (cap or lock\$4 or ring) | US-PGPUB; USPAT | OR | ON | 2006/04/10 13:15 |
| S88 | 33605 | (retain\$4 near5 (cap or lock\$4 or ring)) same (spring or sprung) | US-PGPUB; USPAT | OR | ON | 2006/04/10 13:17 |
| S89 | 3700 | S88 and (shell or missile or projectile or grenade or bomb or bullet) | US-PGPUB; USPAT | OR | ON | 2006/04/10 13:18 |
| S90 | 17097 | (retain\$4 near5 (cap or lock\$4 or ring)) near10 (spring or sprung) | US-PGPUB; USPAT | OR | ON | 2006/04/10 13:37 |
| S92 | 321898 | (shell or missile or projectile or grenade or bomb or bullet) | US-PGPUB; USPAT | OR | ON | 2006/04/10 13:37 |
| S93 | 1800 | S90 and S92 | US-PGPUB; USPAT | OR | ON | 2006/04/10 13:19 |
| S94 | 22277 | "102"/\$.ccls. | US-PGPUB; USPAT | OR | ON | 2006/04/10 13:43 |
| S95 | 63 | S93 and S94 | US-PGPUB; USPAT | OR | ON | 2006/04/10 13:19 |
| S96 | 3345 | (retain\$4 near5 (cap or lock\$4 or ring)) near10 (spring or sprung) | EPO; JPO; DERWENT | OR | ON | 2006/04/10 13:42 |
| S97 | 224855 | (shell or missile or projectile or grenade or bomb or bullet) | EPO; JPO; DERWENT | OR | ON | 2006/04/10 13:43 |
| S98 | 85 | S96 and S97 | EPO; JPO; DERWENT | OR | ON | 2006/04/10 13:37 |
| S99 | 9039 | (retain\$4 near5 (cap or lock\$4 or ring)) near10 (spring or sprung) | USOCR | OR | ON | 2006/04/10 13:42 |
| S10 0 | 168045 | (shell or missile or projectile or grenade or bomb or bullet) | USOCR | OR | ON | 2006/04/10 13:43 |
| S10 1 | 1017 | S99 and S100 | USOCR | OR | ON | 2006/04/10 13:43 |
| S10 2 | 12213 | "102"/\$.ccls. | USOCR | OR | ON | 2006/04/10 13:43 |
| S10 3 | 79 | S101 and S102 | USOCR | OR | ON | 2006/04/10 13:43 |